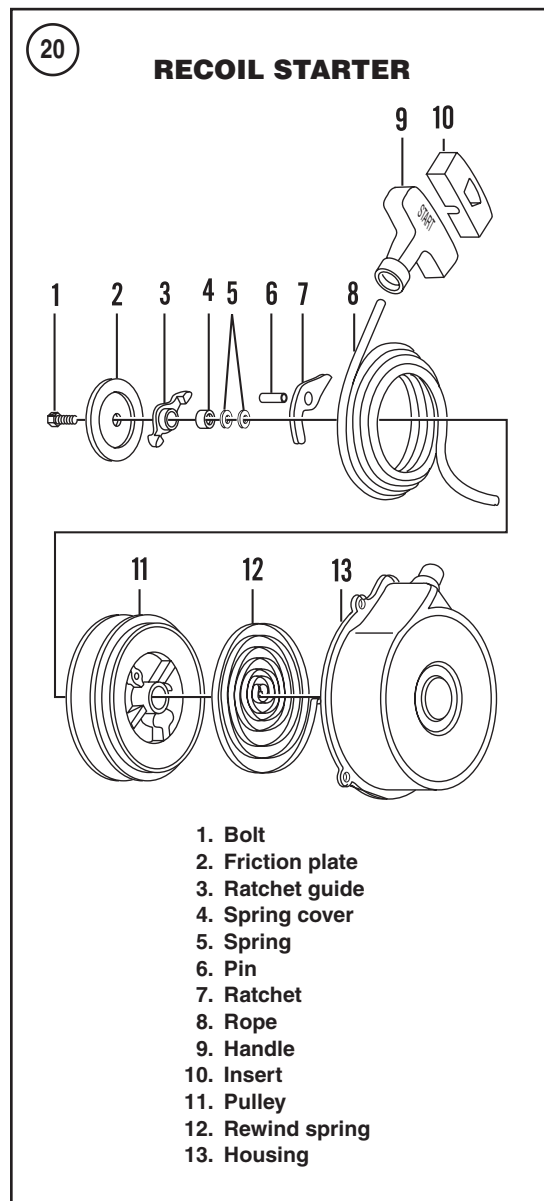
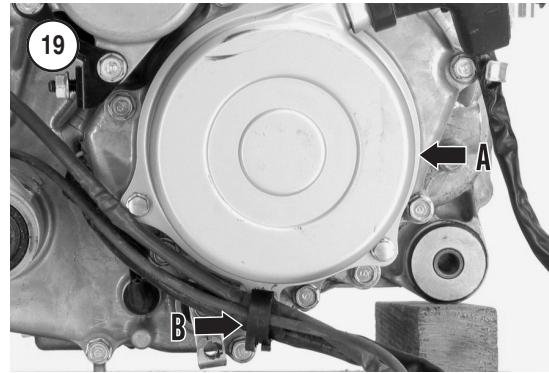
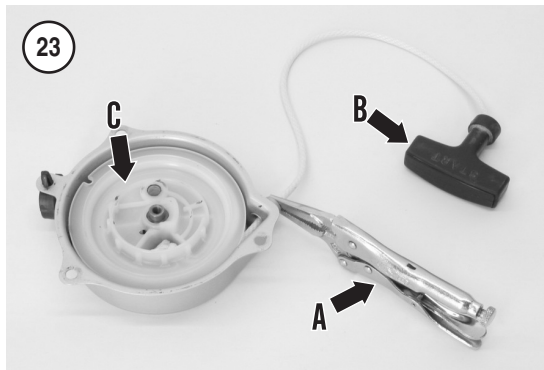
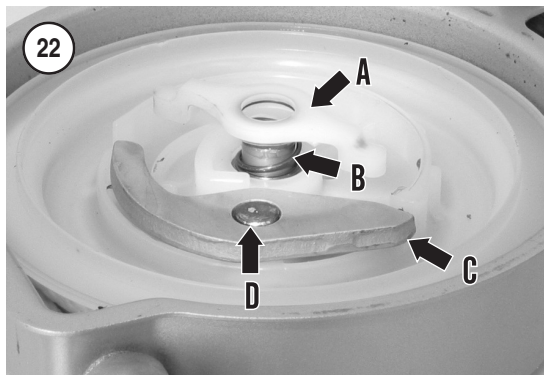
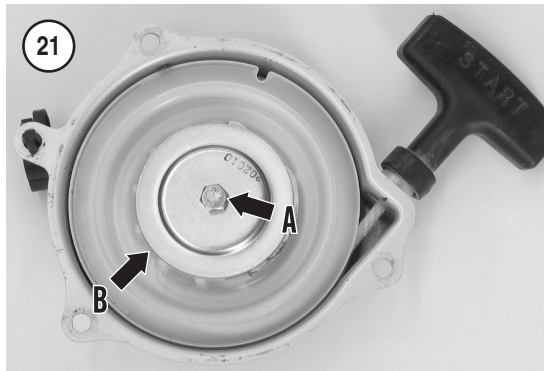


- c. Make sure the splines on the engine rear output shaft and the rear driveshaft universal joint fit properly. Cocking will prevent the engine from sitting correctly in the frame.
- d. Replace damaged engine mount fasteners.
- e. Apply an antiseize compound to the shoulders on each engine mount bolt. This will help to prevent rust and corrosion.
- f. Install the lower rubber mounting dampers so the larger diameter side faces the engine (C, **Figure 17**).
- g. Install the upper hanger rubber mounting dampers so the wide side faces the bracket.
- h. Install the spacer on each lower hanger bolt so the spacer is in front of the engine (B, **Figure 17**). Tighten the lower engine hanger bracket bolts (A, **Figure 17**) to 54 N•m (40 ft.-lb.).
- i. Tighten the upper engine hanger bracket bolts (B, **Figure 16**) to 54 N•m (40 ft.-lb.).
- j. Tighten the upper engine hanger bolt (A, **Figure 16**) to 32 N•m (24 ft.-lb.).
- k. On FE and FM models, tighten the front differential mounting bracket bolts (**Figure 14**) to 22 N•m (16 ft.-lb.).
- l. On FE and FM models, tighten the front differential lower mounting bolt to 44 N•m (33 ft.-lb.).
- m. On FE and FM models, install the spacer on the front differential upper mounting bolt as shown in B, **Figure 13**. Tighten the mounting bolt to 44 N•m (33 ft.-lb.).
- n. Check the electrical connectors for corrosion. Pack the connectors with dielectric grease before reconnecting them.
- o. Fill the engine with the recommended type and quantity of oil; refer to Chapter Three.
- p. Check throttle operation (Chapter Three).
- q. Check the reverse selector cable adjustment (Chapter Three).
- r. Check brake pedal free play (Chapter Three).

RECOIL STARTER

The recoil starter can be removed and installed with the engine mounted in the frame. The following procedures are shown with the engine removed for clarity.





Removal/Installation

1. If the engine is mounted in the frame, remove any wires or cables from the guides mounted on the recoil starter assembly.
2. Remove the three bolts and the recoil starter assembly (A, **Figure 19**).
3. Install the recoil starter assembly by reversing removal while noting the following:
 - a. Install the cable guide in the hole shown at B, **Figure 19**.

- b. Tighten the recoil starter assembly mounting bolts securely.
- c. Pull the recoil starter handle to check operation.

Disassembly

Refer to **Figure 20** for this procedure.

WARNING

The rewind spring is under pressure and may jump out when the starter is serviced in the following steps. The spring is not very strong, but it may cause eye injury and is sharp enough to cut fingers and hands. Safety glasses must be worn when disassembling the starter.

1. Remove the starter housing as described in this chapter.
2. Remove the bolt (A, **Figure 21**) and ratchet cover (B).
3. Remove the friction plate (A, **Figure 22**), spring seat and spring (B).
4. Remove the ratchet (C, **Figure 22**) and pivot pin (D).
5. Pull out the starter rope, then grip the rope with locking pliers (A, **Figure 23**) to prevent retraction back into the starter.
6. Untie the starter rope and remove the starter handle (B, **Figure 23**), then release the starter rope slowly and allow the drive pulley to unwind. Remove the drive pulley (C, **Figure 23**) and starter rope assembly.
7. Remove the starter rope from the drive pulley.
8. If necessary, remove the rewind spring from the housing as follows:
 - a. Place the starter housing on the floor with the spring side facing down.
 - b. Tap on the top of the housing with a plastic hammer while holding the housing firmly against the floor. The spring should fall out and unwind inside the housing.

Inspection

Replace worn or damaged parts as described in this section.

1. Clean and dry all parts. Do not clean the drive pulley, rope or ratchet cover in solvent.

2. Examine the starter shaft in the starter housing. Replace the starter housing if the starter shaft is severely worn or damaged.
3. Examine the drive pulley for severe wear or damage.
4. Examine the ratchet, pivot pin, guide and ratchet spring (**Figure 24**) for damage.
5. Examine the rewind spring for cracks or damaged ends.
6. Examine the starter rope for tearing, fraying or other damage.
7. Examine the ratchet cover for damage.

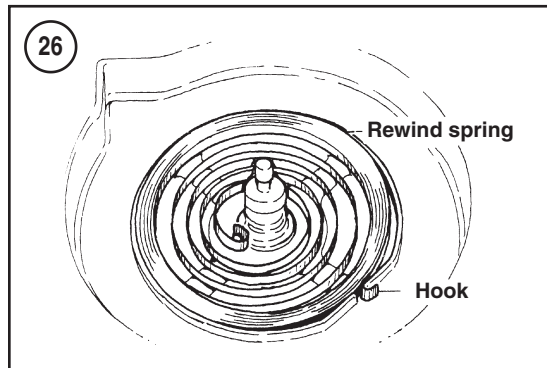
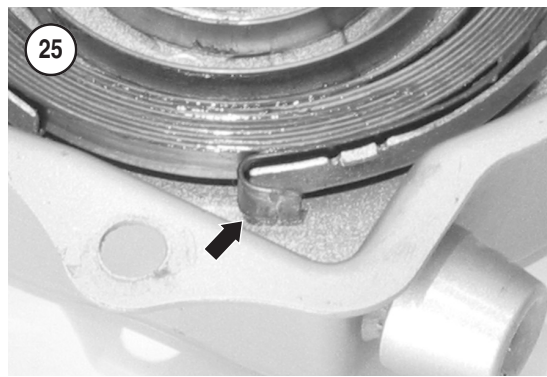
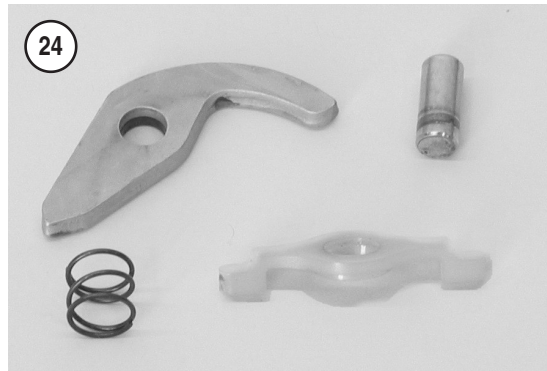
Assembly

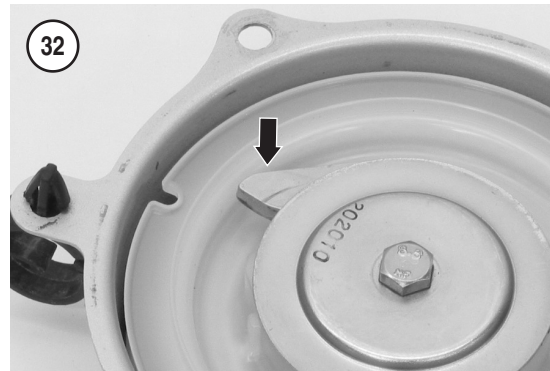
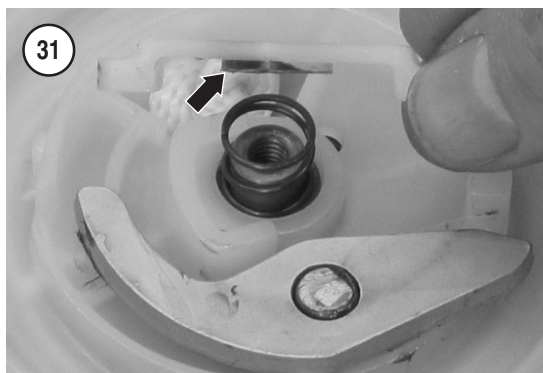
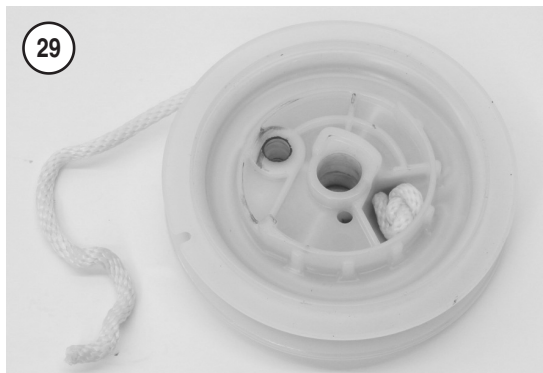
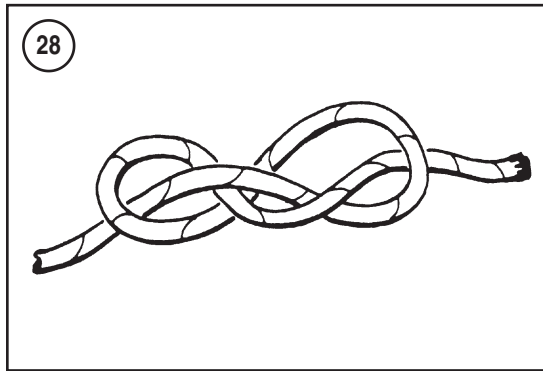
1. If the rewind spring was removed, install it into the starter housing as follows:

WARNING

Significant force is applied to the rewind spring when it is installed in the following steps. Safety glasses and gloves must be worn when installing the rewind spring and assembling the starter assembly.

- a. Before installing the rewind spring, wipe some grease onto a clean rag, then slide the spring against the rag to lubricate it with grease. Wipe off any excess grease.
- b. Lubricate the starter housing shaft with the same type of grease.
- c. Hook the outer end of the rewind spring onto the spring guide as shown in **Figure 25**.
- d. Wind the rewind spring counterclockwise—working from the outside of the spring—into the starter housing (**Figure 26**).
2. Before installing the rope, check the rope ends for fraying. Apply heat with a heat gun (**Figure 27**) to defray loose rope ends. Do not overheat.
3. Install the rope as follows:
 - a. Tie a knot in one end of the rope (**Figure 28**).
 - b. Insert the rope through the hole in the drive pulley. Pull the rope tight so the knot enters the raised shoulder on the pulley.
 - c. With the ratchet side of the drive pulley facing up, wind the rope counterclockwise around the drive pulley as shown in **Figure 29**.
4. Grease the drive pulley shaft bore.





5

5. Install the drive pulley into the starter housing as follows:

- a. Align the hook in the bottom of the drive pulley with the end of the rewind spring and install the drive pulley into the housing.
- b. Rotate the drive pulley slightly counterclockwise until it drops into place, indicating that the hook in the drive pulley engages the rewind spring end.

6. Pull the rope end up into the drive pulley notch (**Figure 30**).

7. Rotate the drive pulley four turns counterclockwise and hold it in this position; do not let go of the drive pulley.

8. Feed the rope through the starter housing rope hole and secure it in place with a pair of locking pliers (A, **Figure 23**). Then slip the rope out of the drive pulley notch.

9. Install the starter handle onto the rope. Tie a knot in the end of the rope.

10. Remove the locking pliers and allow the drive pulley to unwind in the housing while pulling the rope into the housing.

11. Lubricate, then install the pivot pin (D, **Figure 22**) and ratchet (C) onto the pulley.

12. Install the spring (B, **Figure 22**), spring seat and ratchet guide (A). Note that the spring seat fits into the bottom of the ratchet guide (**Figure 31**).

13. Install the friction plate (B, **Figure 21**). Lubricate the bolt threads with oil, then install the bolt (A).

14. Pull the starter handle and make sure the ratchet extends as shown in **Figure 32**. If the ratchet does not extend, remove the friction plate and reassemble the parts.

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